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Borden

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[54]	DECORATIVE FRAMING BORDER OR
	ENCLOSURE DEVICE

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[*] Notice: The portion of the term of this patent subsequent to Mar. 30, 2010 has been

disclaimed.

[21] Appl. No.: 709

[22] Filed: Jan. 5, 1993

Related U.S. Application Data

[60] Division of Ser. No. 842,946, Feb. 27, 1992, Pat. No. 5,197,213, which is a continuation-in-part of Ser. No. 660,649, Feb. 25, 1991, abandoned.

[51]	Int. Cl. ⁵	A47G 1/06
	U.S. Cl	
	Field of Search	
	40/155,	156, 158.1; 206/223, 575

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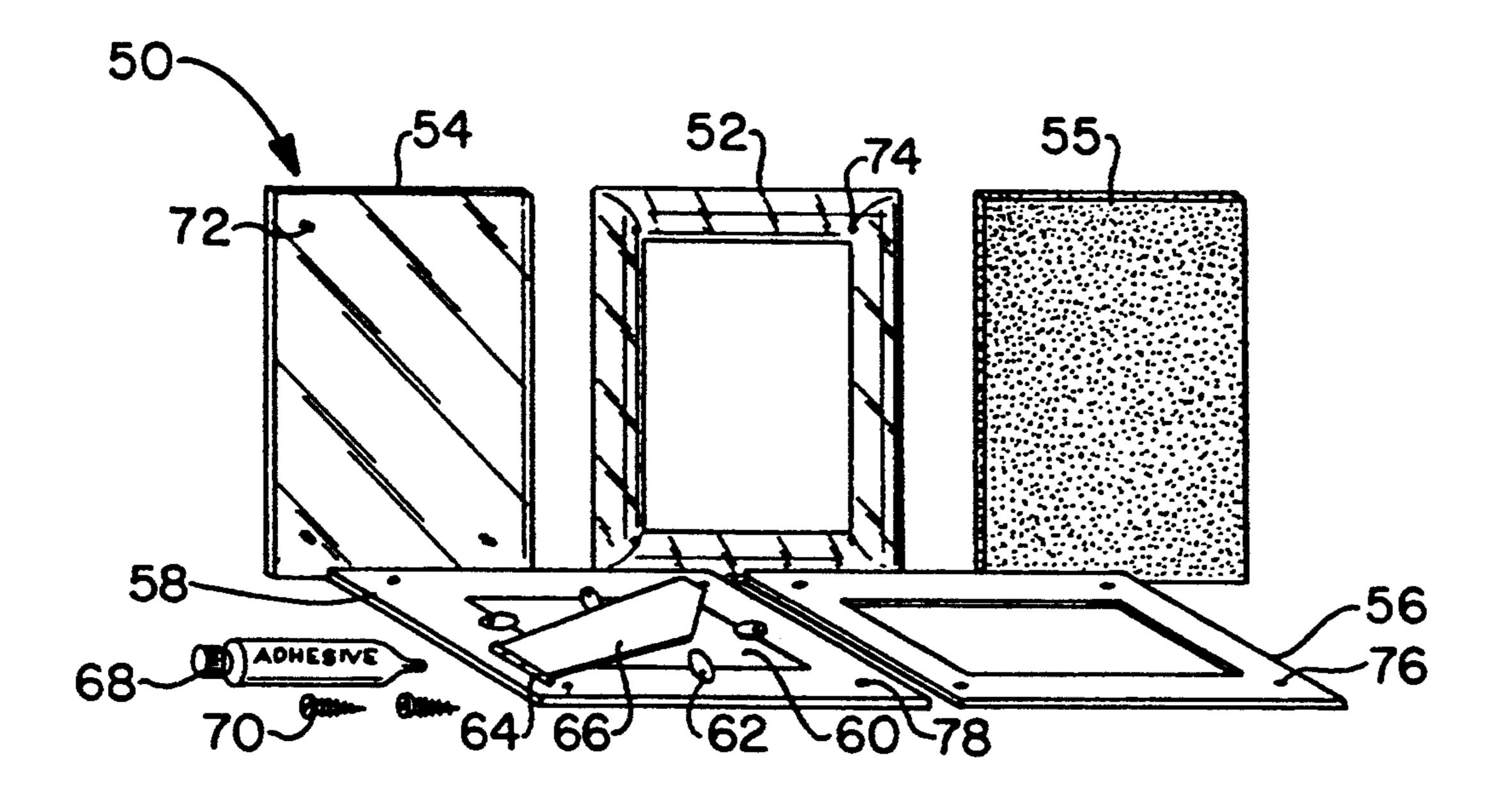
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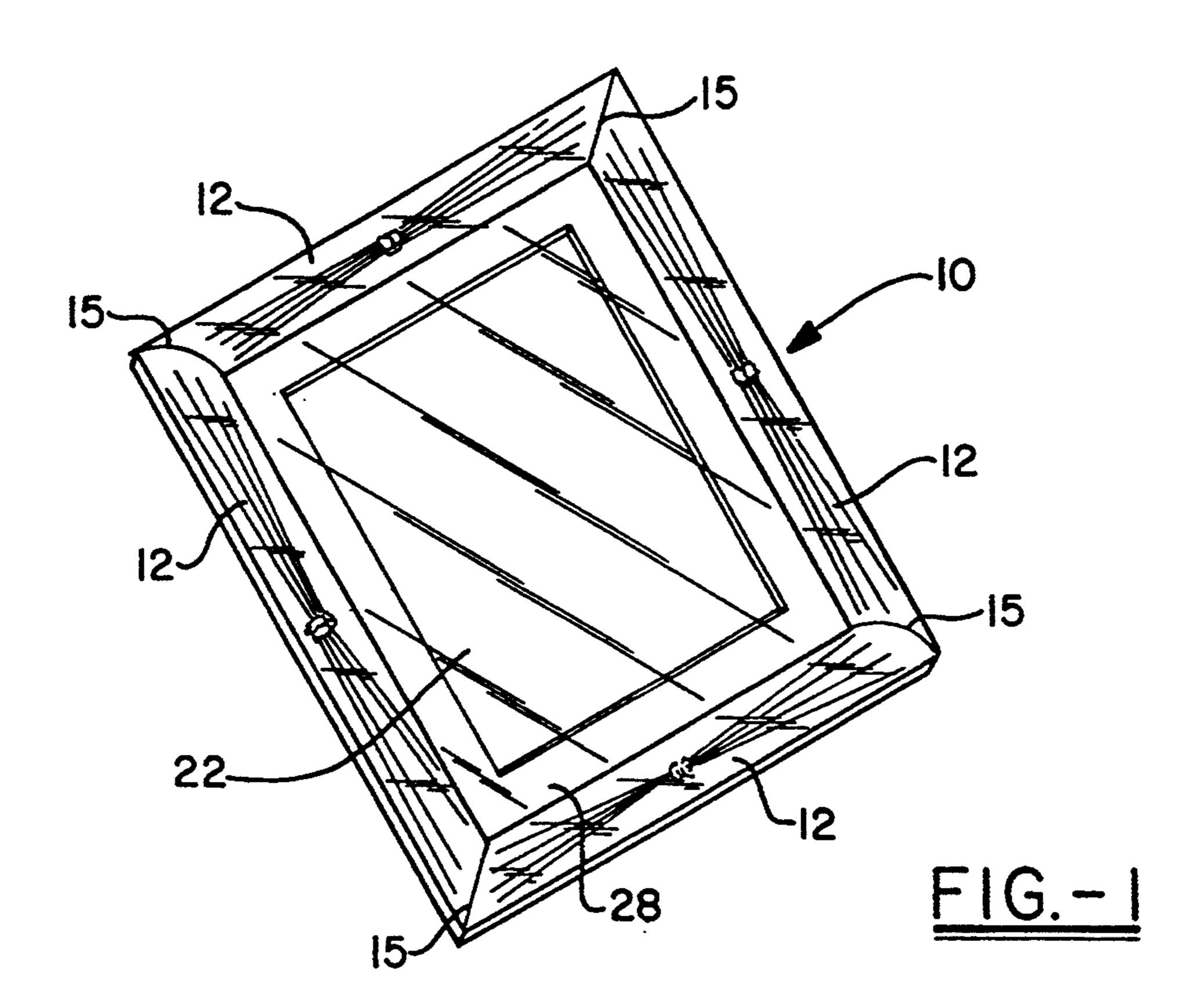
Primary Examiner—Brian K. Green Attorney, Agent, or Firm—Oldham, Oldham & Wilson Co.

[57] ABSTRACT

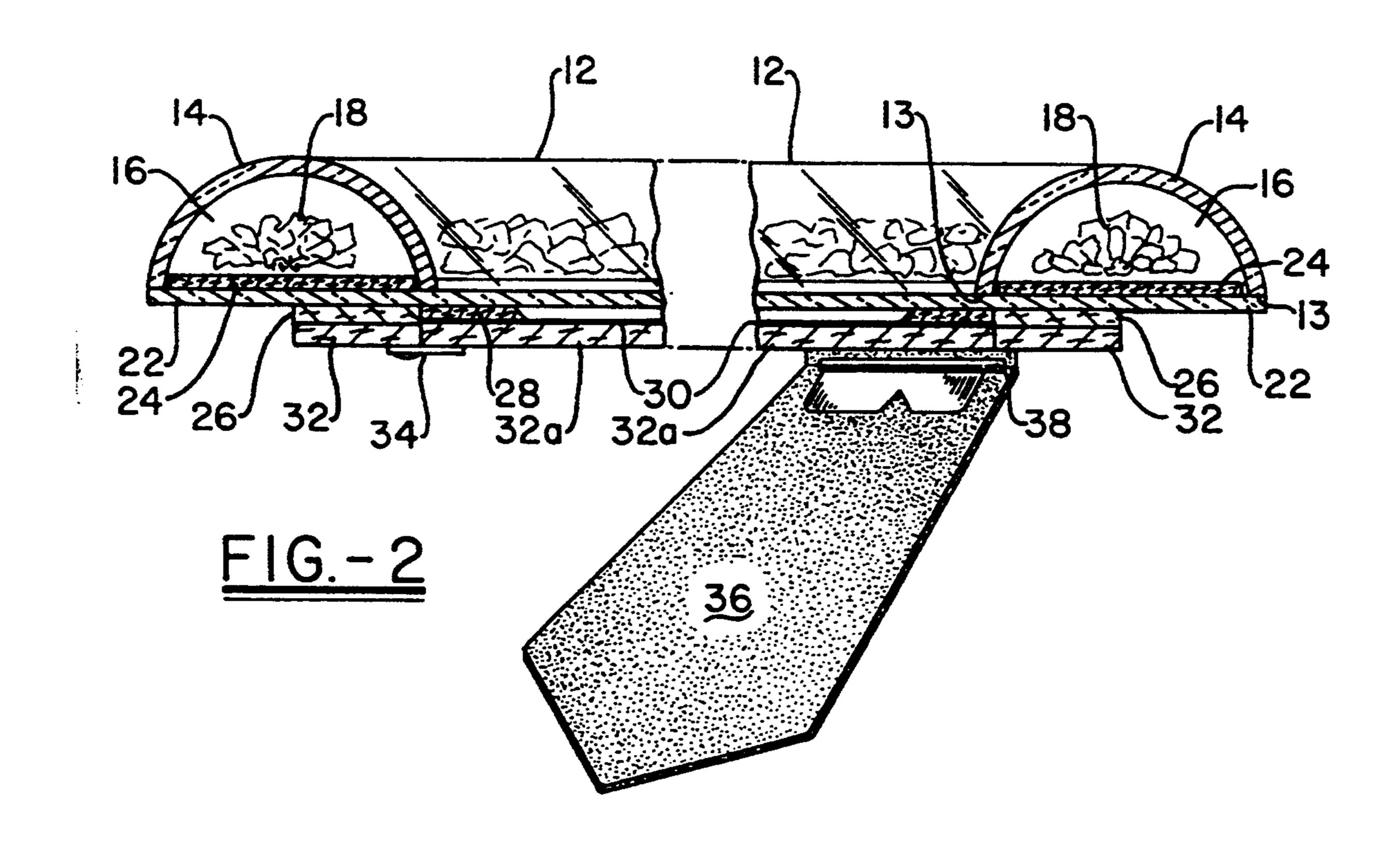
A decorative framing border or enclosure device is described. The border or enclosure device contains transparent polymer or copolymer outer framing members positioned along at least one peripheral edge of a base framing member. The composition of the base framing member can be varied to be an acrylic resin, a polystyrene, a polycarbonate, a polyester resin, a noncrystalline polyolefin, and an unsaturated polyester resin copolymerized with styrene, a corkboard, a mirrored surface, a pegboard, etc. The transparent polymer or copolymer outer framing members are adapted to accommodate appearance-altering material therein. The border or enclosure device is so constructed as to permit the changing of a picture or mat which surrounds the picture without simultaneously affecting the appearance-altering material disposed within the outer framing members by isolating the two components to opposing surfaces of the base framing member. The decorative framing border or enclosure device is also described in a kit form.

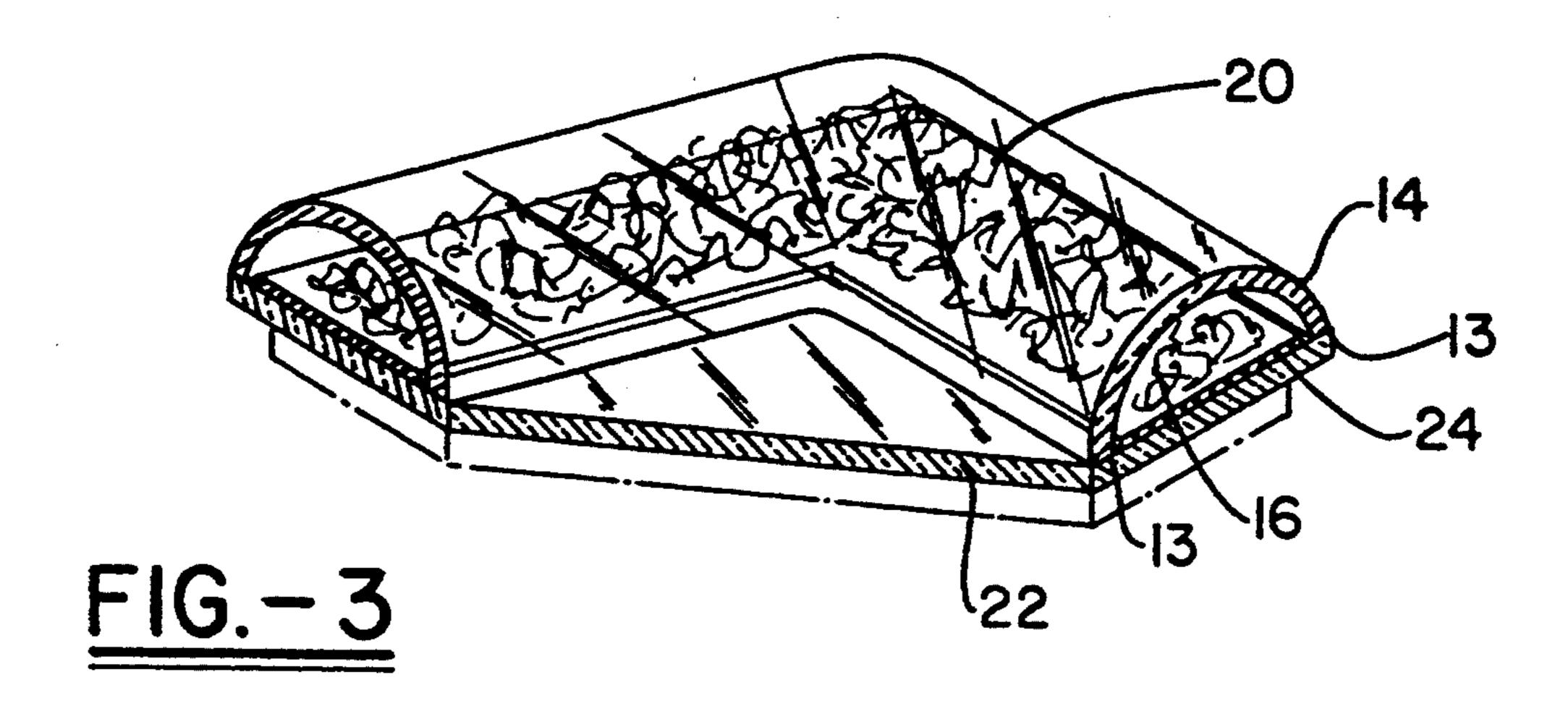
5 Claims, 3 Drawing Sheets





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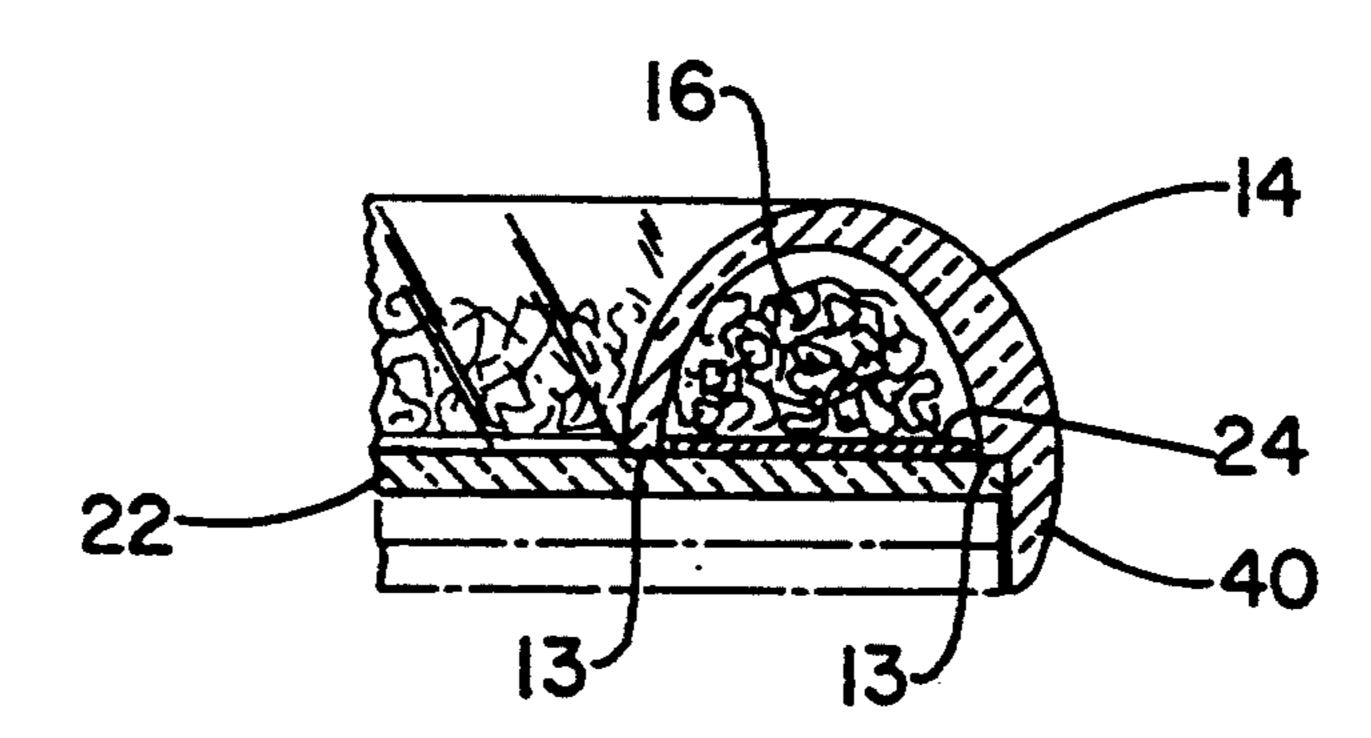
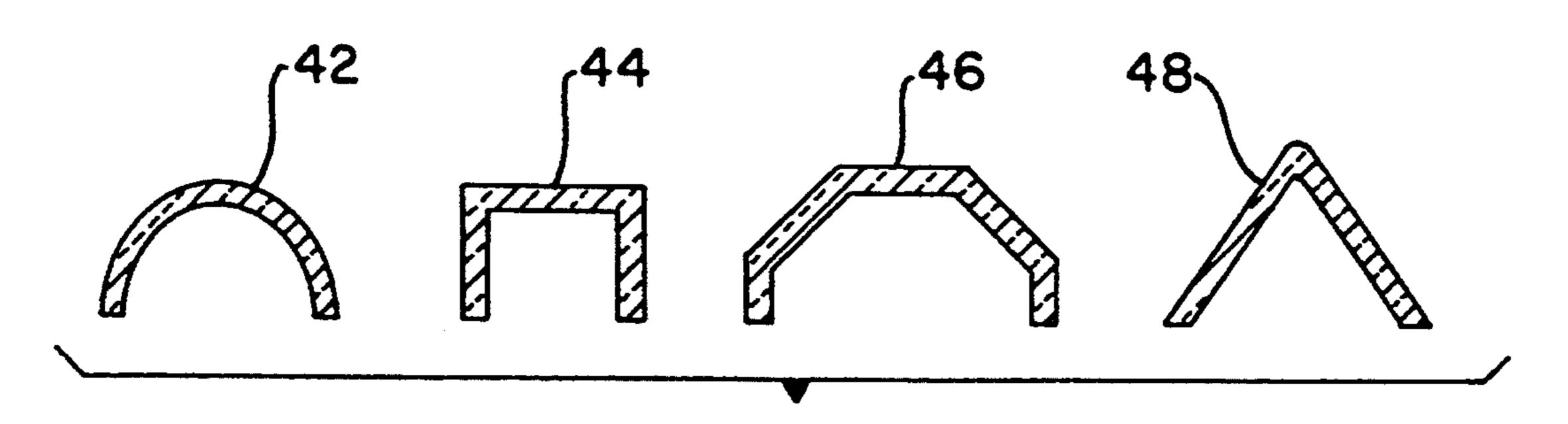
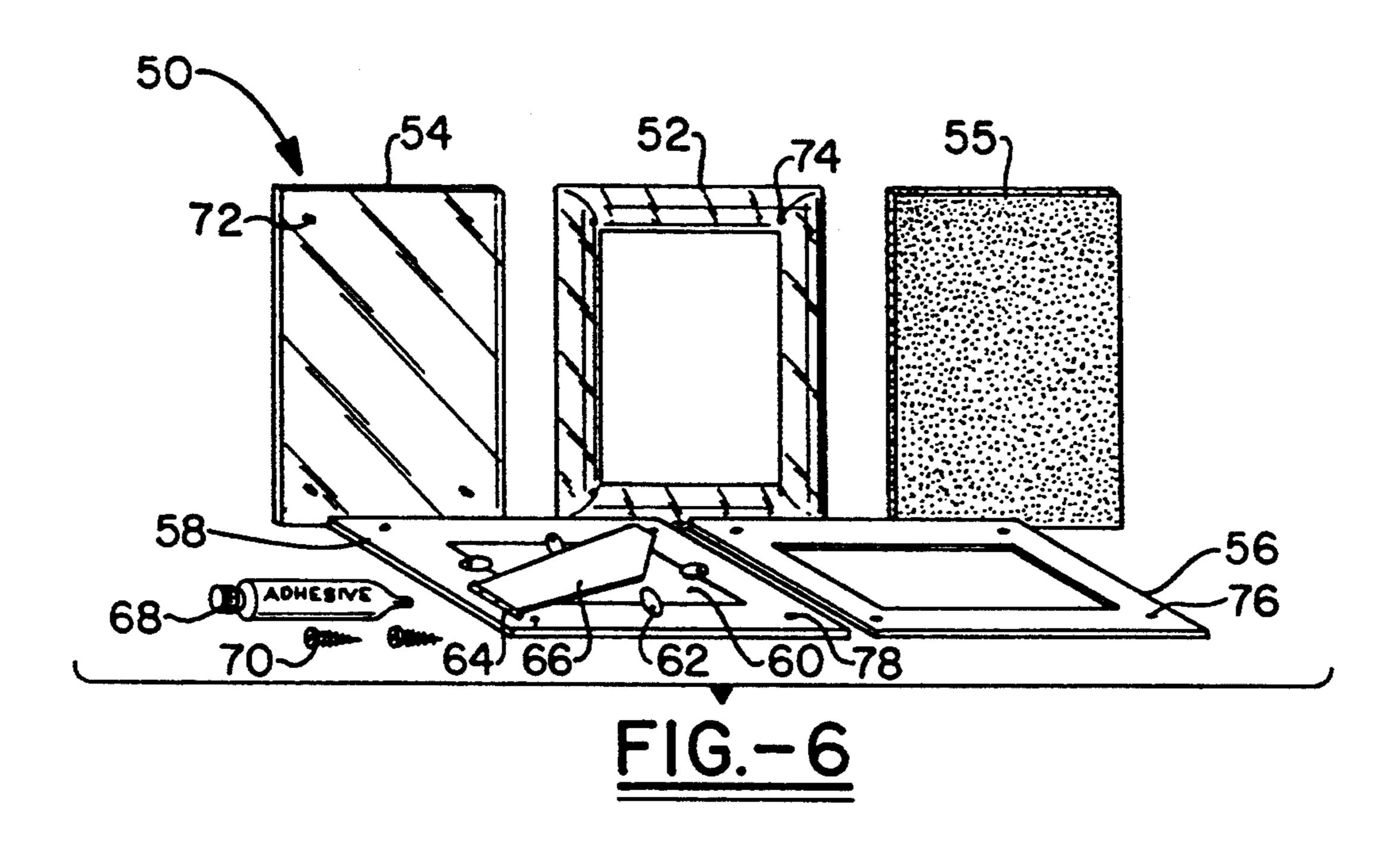


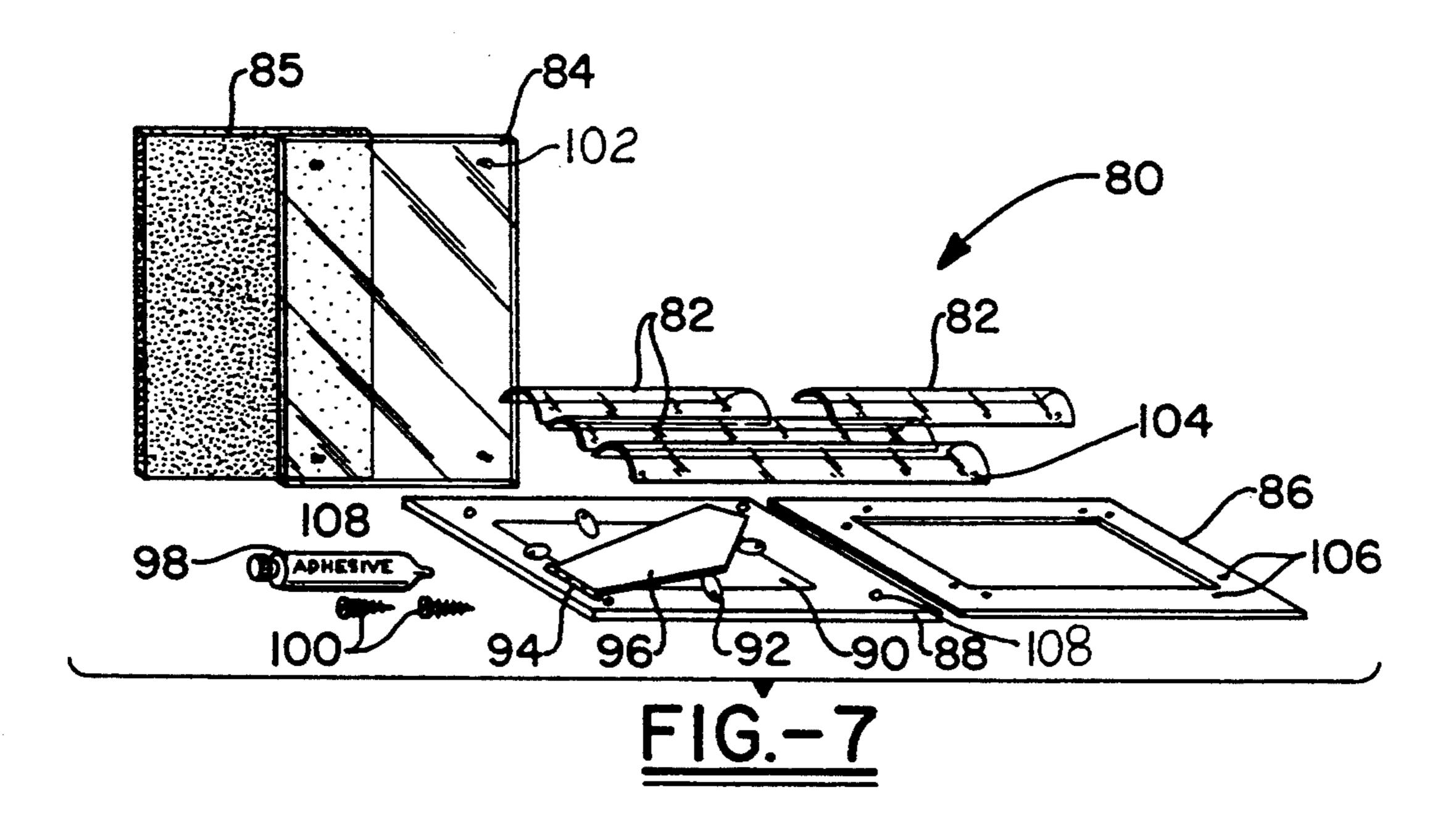
FIG.-4

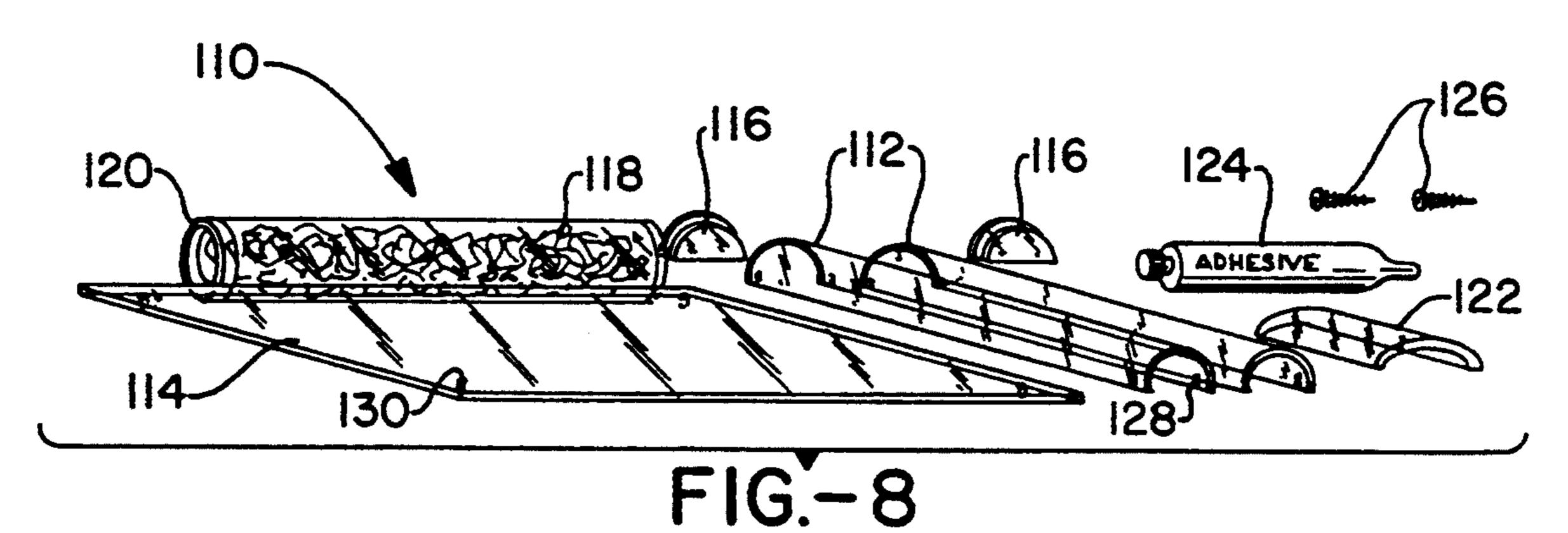


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DECORATIVE FRAMING BORDER OR ENCLOSURE DEVICE

This is a divisional of copending application Ser. No. 5 07/842,946 filed on Feb. 27, 1992, which is a continuation-in-part of Ser. No. 07/660,649 now U.S. Pat. No. 5,197,213, filed Feb. 25, 1991, now abandoned.

TECHNICAL FIELD

The present invention relates to transparent or translucent polymeric decorative framing borders and/or enclosure devices, the unique component being the ability to enclose appearance-altering or decorative material within at least one hollow enclosure component of the frame.

BACKGROUND OF THE INVENTION

Convention frames are typically assembled by joining frame members having connection surfaces cut to 45° at 20 both sides to be assembled at right angles to each other, attaching L-shaped corner connection fittings to the connecting parts, fixing them to tile frame member by rivets or set screws and assembling frame members to a square or rectangular frame.

Frame picture units typically comprise a picture assembly of a transparent protecting cover (made of glass or plastic), a mat, a picture and a backing board (in that order from front to back), the outside edges of which are encased in a frame. The most common frames are 30 rectangular or square in plan and typically comprise four framing members joined together with ends mitered at a 45° angle. The framing members may be made of, for example, wood, metal or plastic. When made of wood, the frame members have an outer surface that is 35 typically decoratively shaped or carved, and an inner surface. The inner surface is usually L-shaped in crosssection, comprising a flat front surface which engages the protective cover and a flat side surface. When using wooden framing members, the members are usually 40 glued or nailed together to form the frame. The assembly is placed in the frame with the protective cover engaging the front inner surface, and tacks or other retaining members are driven into the flat inner side surface of each framing member to secure the picture 45 assembly in the frame. While wood has for years been the most common framing material, metal and plastic frames are also in common use. Most metal framing members, like wood framing members, also have mitered ends cut at a 45° angle, however, the means for 50 joining them together is different.

SUMMARY OF THE INVENTION

In accordance with the present invention, there is provided a transparent or translucent polymeric deco- 55 rative framing border or enclosure device which can enclose a picture, a bulletin board, a vanity mirror, a towel bar rod, a doorknob, a toilet seat, a clock, a light switch, etc., the unique component being the ability to include appearance-altering or decorative material 60 within a hollow enclosure.

It is an object of this invention to provide a transparent or translucent picture frame wherein at least one framing member has an inwardly opening recess to allow decorative material and/or inserts to be posi-65 tioned therein.

It is a second object of this invention to provide a picture frame which is capable of having the picture

changed without affecting or altering the appearancealtering material positioned in the inwardly opening recesses of the framing members.

It is a third object of this invention to provide a decorative framing or enclosure device at a low cost.

It is a fourth object of this invention to provide decorative framing or enclosure devices in kit form.

These and other objects of this invention will be evident when viewed in light of the drawings, detailed description, and appended claims.

DETAILED DESCRIPTION OF THE DRAWINGS

The invention may take physical form in certain parts and arrangements of parts, a preferred embodiment of which will be described in detail in the specification and illustrated in the accompanying drawings which form a part hereof, and wherein:

FIG. 1 is a perspective view of a picture frame according to the present invention.

FIG. 2 is a greatly enlarged elevational view, partially broken away and in cross-section as may be taken on line 2—2 of FIG. 1, illustrating the various elements comprising the picture frame.

FIG. 3 is a partial perspective view of a corner of a picture frame of the present invention.

FIG. 4 is %w enlarged elevational view, partially broken away and in cross-section as may be taken on line 4—4 of FIG. 1, illustrating a second embodiment of the framing members.

FIG. 5 is a cross-sectional view of several potential framing member shapes, such as a circle or ellipse; a square or rectangle; an n-sided polygon; and a trapezoid or triangle.

FIG. 6 is a perspective view of a framing kit which contains a unitary outer framing member, a protective cover, a mat, a backing member having a back closure member disposed therein, a tube of adhesive, and several screws, the members of the kit through which the screws are to be inserted containing pre-drilled holes.

FIG. 7 is a perspective view of a framing kit which contains a plurality of outer framing members, a protective cover, a mat, a backing member having a back closure member disposed therein, a tube of adhesive, and several screws members of the kit through which the screws are to be inserted containing pre-drilled holes.

FIG. 8 is a perspective view of a framing kit for a deskpad or placemat which contains a plurality of outer framing members, a protective cover, a pair of matched end caps for each framing member, an ancillary holder, a tube of adhesive, and several screws, the members of the kit through which the screws are to be inserted containing pre-drilled holes.

DETAILED COMPONENT PART LIST		
Part Number	Description	
10	frame	
12	framing member	
13	peripheral edges	
14	cavity-defining member	
15	corners	
16	cavity	
18	decorative or appearance-altering material	
20	unitary molded frame	
22	base frame member	
24	matboard	
26	spacers	
28	mat	

-continued

Part Number Description 30 picture 32 backing member 32a back closure member 34 retaining means 35 supporting leg 38 hinge 40 lip 42 semicircular or elliptical frame member 44 square or rectangular frame member 45 polygonal frame member 46 polygonal frame member 47 triangular or trapezoidal frame member 48 triangular or trapezoidal frame member 49 base frame member 40 base frame member 41 square or rectangular frame member 42 triangular or trapezoidal frame member 43 base frame member 44 square or rectangular frame member 45 non-transparent base frame member 46 back closure member 47 pre-drilled back closure member 48 supporting leg 49 supporting leg 40 supporting leg 40 supporting leg 41 pre-drilled outer frame hole 42 pre-drilled backing member hole 43 pre-drilled backing member hole 44 pre-drilled backing member hole 45 pre-drilled backing member hole 46 pre-drilled backing member 47 pre-drilled backing member 48 base frame member 49 pre-drilled backing member 40 back closure member 40 back closure member 41 pre-drilled backing member 42 pre-drilled backing member 43 backing member 44 base frame member 45 non-transparent base frame member 46 matboard 47 pre-drilled backing member 48 backing member 49 back closure member 40 pre-drilled base frame member hole 40 pre-drilled backing member hole 40 pre-drilled backing member hole 41 pre-drilled backing member hole 41 pre-drilled backing member hole 41 pre-drilled backing member hole 42 pre-drilled backing member hole 43 pre-drilled backing member hole 44 pre-drilled outer frame hole 55 pre-drilled backing member hole 56 pre-drilled outer frame hole 57 pre-drilled backing member hole 58 pre-drilled outer frame hole 59 pre-drilled outer frame hole 50 pre-drilled backing member hole 50 pre-drilled backing member hole 51 pre-drilled backing member hole 51 pre-drilled backing member hole 51 pre-drilled backing member	 -continued					
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DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings wherein the showings are for purposes of illustrating the preferred embodiment of the invention only and not for purposes of limiting the same, the Figures show a decorative fram- 55 ing border or enclosure device within which appearance-altering or decorative material may be positioned along the periphery. The framing borders are suitable with bulletin boards, vanity mirrors, placements, deskpads, towel bars, clocks, toilet seats, etc. Additionally, 60 the devices are shown in kit form.

Referring to FIG. 1, a specific example of a picture frame is disclosed. Frame 10 contains a plurality of framing members 12, which are connected at a peripheral edge of frame 10 to form a continuous border. In a 65 preferred embodiment, the framing members 12 are at least translucent, and in a most preferred embodiment, they are transparent. Particularly suitable for use as the

material of construction of framing members 12 are the class of polymers generally referred to as acrylic resins. Acrylic resins in general are lightweight and very durable. They tend to retain clarity and clean exterior better than most plastics, which have a tendency to cloud or fade with age. Acrylic resins are relatively easy to work with and can readily be molded, extruded, cut and glued. Acrylic resins are thermoplastic polymers or copolymers of acrylic acid, methacrylic acid, esters of these acids, or acrylonitrile. A distinctive feature of cast sheet and extruded rods of acrylic resins is their ability to transfer light through the solid material.

While acrylic resins are suitable for the application, it is envisioned that other polymers would also be suitable for the application. Examples of such polymers are polystyrenes, polycarbonates, polyester resins, such as polyolefin terephthalates, (e.g. polyethylene terephthalate and polybutylene terephthalate), non-crystalline polyolefins, such as non-crystalline polyethylene, and non-crystalline polypropylene, and unsaturated polyester resins copolymerized with styrene. It is also within the scope of this invention to include halogenated derivatives of the polymers enumerated above, in addition to compatible copolymers of the above.

As shown in FIG. 1, frame 10 contains four framing members 12. Each framing member 12 is mitered at each end to permit snug union with its adjacent framing member at corners 15. When the picture frame is square 30 or rectangular, this mitering is performed at an angle of 45° thereby permitting the formation of a perpendicular 90° positioning of the framing members 12. While FIG. 1 shows a generally square or rectangular frame, other geometric shapes are equally envisioned. For example, 35 if a six-sided picture frame is desired, then the six framing members would be mitered at an angle of 30°. In general, an n-sided polygon will have framing members mitered at an angle which is calculated by the formula of (360°/n/2). It is of course, realized that as the value 40 of n approaches a high number, the geometric shape of the frame becomes spherical in nature.

As illustrated better in FIG. 2, frame 10 is a multilayered product. In moving from the front to the back of the frame, there will be found framing members 12, which are attached to base frame member 22 at its peripheral edge. Underneath base frame member 22 are spacers 26 to which are attached backing member 32. The gap created between base frame member 22 and backing member 32, which is bounded by spacers 26, defines an interior region into which is inserted mat 28 and picture 30. Backing member 32 typically has a supporting leg 36 pivotally attached through hinge 38.

In one embodiment of the invention, spacers 26 are positioned on three sides of frame 10, thereby permitting the insertion of both mat 28 and picture 30 through the slot created in the vacant side.

In an alternative embodiment of the invention, spacers 26 are positioned on at least three sides of frame 10 and backing member 32 has a removable interior back closure member 32a thereby permitting the insertion of mat 28 through the slot created in the vacant side and picture 30 into the frame through the opening created by the removal of interior back closure member 32a. Interior back closure member 32a is retained in position in backing member 32 by retaining means 34. Retaining means 34 are typically clips, although other retaining means known in the art would also work.

As shown in FIG. 2, framing members 12 have inwardly opening cavities 16 into which decorative or appearance-altering material 18 and optionally a matboard 24 are inserted. The decorative or appearancealtering material can be almost limitless in nature. As 5 illustrative of this type of material, the following list is provided, but the invention is not limited to such enumerated examples, but rather to the spirit and scope of classes of material listed: ribbon, shredded paper, streamers, potpourri, dried flowers, confetti, lace, rings 10 or other wedding mementos, small photographs, beads, shredded paper currency, shredded plastic, buttons, and school paraphernalia (e.g. rubber bands, erasers, pencils, paper clips, pens, shredded paper, etc.). This list is not limiting the invention to the defined members, but 15 FIG. 5, is applicable. rather is for illustrative purposes. The only limitation on the appearance-altering material is that it be capable of fitting into the inwardly opening cavities 16.

Framing member 12 has a cavity-defining member 14 and a pair of peripheral edges 13 which contact base 20 frame member 22. As seen in FIG. 2, cavity-defining member 14 is semicircular. However, it is within the scope of the invention to have alternative shapes defining cavity 16. As shown in FIG. 5, semicircular or oval cavity-defining members 42, square or rectangular cavi-25 ty-defining members 44, n-sided polygon-shaped cavity-defining members 46, and triangular or trapezoidal cavity-defining members 48 are envisioned.

During the manufacture of frame 10, framing members 12 are typically joined together with a clear adhe- 30 sive well-known in the art. Subsequent to the gluing process, these glued framing members 12 are filled with the decorative or appearance-altering material 18 described previously. The polymeric frame is completed by using the clear adhesive to attach glued framing 35 members 12 to one side of base frame member 22 thereby defining a front face of the frame 10. The frame is completed by attaching spacers 26 to at least three sides of the back face of base frame member 22. Spacers 26 are typically double-sided tape to which backing 40 member 32 is attached.

While gluing is one attachment method, it is equally envisioned that alternative modes, such as using screws, are applicable. When used in this embodiment, in a preferred mode, the screws would be self-tapping 45 screws. When screws are used, it is suggested that predrilled holes be utilized, so that the potential for cracking of the picture frame and/or components thereof, is minimized. It is known however, that ordinary threaded screws, could be used provided that the pre-50 drilled holes have been correspondingly threaded to a matching number of threads per inch design.

FIG. 3 illustrates an alternative embodiment of the invention where the plurality of framing members 12 have been replaced with a unitary molded frame 20 55 shown with a semicircular cavity-defining member 14 defining cavity 16. As was shown in for framing members 12, unitary molded frame 20 has a pair of peripheral edges which are attached to the periphery of base frame member 22. The advantage of using unitary molded 60 frame 20 lies in the ability to eliminate several processing steps, in addition to minimizing the alignment issue. As with the embodiment illustrated in FIG. 2, the shape of cavity-defining member 14 is not limited to the semicircular shape disclosed. Any closed geometric shape, 65 as illustrated in FIG. 5, is applicable.

A further embodiment of the invention is illustrated in FIG. 4. As shown, framing member 12 has been

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modified to have lip 40 extending beyond peripheral edge 13 on the framing member's exterior side. The framing member's interior side has not been modified with the positioning of peripheral edge 13 remaining the same. The benefit of this configuration is that the positioning of base frame member 22 has been made foolproof. Lip 40 now defines a central cavity into which base frame member 22 is inserted without any ability for mis-positioning. This lipped configuration is suitable for positioning on both individual framing members 12 or on unitary molded frame 20. As with the embodiment illustrated in FIGS. 2 and 3, the shape of cavity-defining member 14 is not limited to the semi-circular shape disclosed. Any closed geometric shape, as illustrated in FIG. 5, is applicable.

When used as a picture frame, base frame member 22 is a transparent polymer or copolymer. However, there are applications when other types of materials would be preferred. For example, a cork board could function equally well as base frame member with framing members 12 or unitary molded frame 20 serving as the peripheral edge. Other materials, such as mirrors, masonite, or pegboard would also be candidate materials for base frame member 22.

It is also envisioned that when base frame member 22 is a transparent polymer or copolymer, a placemat or deskpad, rather than a picture frame would be the end-product. In this application, framing members are typically positioned at two opposing ends.

FIG. 6 illustrates the decorative border or framing device in kit form. Given the simplicity of the products described, it is envisioned that almost anyone could produce a customized product. To meet the needs of this population, a do-it-yourself kit was created containing sufficient materials to produce different end products. In this form, the kit typically contains a unitary outer frame 52 optionally with pre-drilled holes 74, a base frame member 54 (transparent) optionally with pre-drilled holes 72, a non-transparent base frame member 55, a matboard 56 optionally with pre-drilled holes 76, and a backing member 58 optionally with pre-drilled holes 78. The backing member 58 can contain a back closure member 60 retained in position by retaining means 62 (typically clips), and supporting leg 66 pivotally attached to backing member 58 by hinge 64.

The final product can be assembled either by using an appropriate adhesive or by several self-tapping screws, or by a combination thereof. In this embodiment, unitary frame 52 can be similar in shape to that shown in FIG. 3, or can have peripheral lip 40 as shown in FIG. 4. Pre-drilled holes serve to facilitate the attachment of the component parts together while minimizing the risk of cracking the transparent polymer or copolymer components. Consistent with the previous discussion, base frame member 54 can be either a transparent plastic, thereby making it suitable for a picture frame application, or can be a cork board 55, thereby making it suitable for a bulletin board application. It is equally envisioned that the base frame member 54 could be pegboard, masonite, mirror, etc. While unitary molded outer frame 52 is generally shown to be semicircular, it is envisioned that all of the shown closed geometric shapes disclosed in FIG. 5 are applicable.

FIG. 7 also illustrates the decorative border or framing device in kit form. In this form, the kit typically contains a plurality of outer frame members 82 optionally with pre-drilled holes 104, a base frame member 84 (transparent) optionally with pre-drilled holes 102, a

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non-transparent base frame member (85), a matboard 86 optionally with pre-drilled holes 106, and a backing member 88 optionally with pre-drilled holes 108. The backing member 88 can contain a back closure member 90 retained in position by retaining means 92 (typically 5 clips), and supporting leg 96 pivotally attached to backing member 88 by hinge 94.

The final product can be assembled either by using an appropriate adhesive or by several self-tapping screws, or by a combination thereof. In this embodiment, outer 10 frame members 82 can be similar in shape to that shown in FIG. 1, or can have peripheral lip 40 as shown in FIG. 4. Pre-drilled holes serve to facilitate the attachment of the component parts together while minimizing the risk of cracking the transparent polymer or copoly- 15 mer components. Consistent with the previous discussion, base frame member 84 can be either a transparent plastic, thereby making it suitable for a picture application, or can be a cork board 85, thereby making it suitable for a bulletin board application. It is equally envi- 20 sioned that the base frame member 84 could be pegboard, masonite, etc. While outer frame members 82 are generally shown to be semicircular, it is envisioned that all of the shown closed geometric shapes disclosed in FIG. 5 are applicable.

FIG. 8 illustrates yet another embodiment of the invention. In this configuration, outer frame members are not circumferentially attached about a peripheral edge, but rather are discontinuous or at least semi-discontinuous. In this form, the kit typically contains a pair 30 of outer frame members 112 optionally with pre-drilled holes 128, a pair of friction-fitting end caps 116 for each outer frame member 112., an ancillary holder 122, and a base frame member 114 optionally with pre-drilled holes **130**.

The final product can be assembled either by using an appropriate adhesive or by several self-tapping screws, or by a combination thereof. Additionally, it is envisioned that for certain portions of the fabrication process, double stick tape, or other means known in the art 40 could be used. In this embodiment, outer frame members 112 can be similar in shape to that shown in FIG. 8, or can have peripheral lip 40 as shown in FIG. 4. Predrilled holes serve to facilitate the attachment of the component parts together while minimizing the risk of 45 cracking the transparent polymer or copolymer components.

The kit shown in FIG. 8 can additionally contain cylindrical outer frame members with friction-fitting cylindrical end caps 120. Consistent with the previous 50 applications, the shape of outer frame 112 or supplemental frame member 118 can assume any of the geometric shapes shown in FIG. 5, with the shape of either end cps 116 or supplemental end caps 120 being chosen to frictionally fit into an end thereof.

DISCUSSION

The framing devices of the invention have a wide range of uses and applications. Framing borders, whether in the kit form, or as the final product, are 60 applicable for use with pictures, bulletin boards, vanity mirrors, clocks, placemats, deskpads, towel bars, clocks, toilet seats, etc. One of the unique features of this application is the ability to separate the insertion of the appearance-altering material from that of the pic- 65 ture or photograph. It is the unique construction which

allows the operations concerning the outer peripheral border and appearance-altering material positioning therein, from impacting the positioning of the photograph.

The decorative border isolates the appearance-altering material and enclosing framing members which are adapted for receiving such material to an upper first surface of the base frame member. The positioning of the mat and picture or photograph are restricted to operations which affect only the lower second surface of the base frame member. There is no cooperativity between the two surfaces of the base frame member which thereby permits the ability to change either the picture or the mat positioned on the lower second surface without simultaneously affecting the positioning of the appearance-altering material resident on the upper first surface.

What is claimed is:

- 1. A kit for framing objects comprising:
- (a) an essentially transparent base frame member having a front and a rear surface, each said surface having a peripheral region and an interior region;
- (b) a plurality of enclosing frame members about a periphery of the base frame member, at least one frame member having only a single longitudinal channel open along a substantial portion of a length of the channel, said at least one frame member being transparent, the longitudinal channel of the enclosing frame members opening toward the rear surface of the base frame member, wherein the enclosing frame members extend in their entirety only upwardly from the front surface of the base frame member;
- (c) a means for closing the opening of the longitudinal channel, thereby adapting the channel to receive an appearance-altering material therein, the means additionally being in associative contact with the enclosing frame members;
- (d) a backing member on the rear surface of the base frame member adapted to repeatedly receive and remove an object to be frame without affecting the positioning of the appearance-altering material disposed in the channel, wherein associative contact is made with at least a portion of the interior region of the rear surface of the base frame member when an object to be framed is inserted into the backing member and
- (e) a securing means for attaching the backing member to the rear surface of the base frame member.
- 2. The kit of claim 1 wherein the means for closing the longitudinal channel is the base frame member.
- 3. The kit of claim 1 wherein the base frame member and enclosing frame member is made from the group 55 consisting of an adhesive and a screw.
 - 4. The kit of claim 1 wherein the base frame member and enclosing frame member is made from the group consisting of an acrylic resin, a polystyrene, a polycarbonate, a polyester resin, a non-crystalline polyolefin and an unsaturated polyester resin copolymerized with styrene.
 - 5. The kit of claim 1 wherein the enclosing frame member has a cross-sectional shape selected from the group consisting of semi-circular, semi-oval, n-sided polygon, triangle and trapezoid.